GENERAL INFORMATION

SIMPLWINDOWS NAME:	BSS SoundWeb London Node v5.4
CATEGORY:	DSP
VERSION:	5.4
SUMMARY:	This module handles all communications between the Crestron and the BSS SoundWeb London.
GENERAL NOTES:	This module handles all communications between the Crestron and the BSS SoundWeb London. There is an input on the module called Initialize. In order for this module to properly process the feedback strings the Initialize input must be pulsed. This will get the object IDs from each of the individual control modules. The Initialize input cannot be pulse for the first 30 seconds after the processor reboots. Initialization is only required when the Crestron processor boots up. It is NOT required every time the TCP/IP client connects. Crestron recommends that you have no more than 3 BSS SoundWeb London Node v5.4 modules per connection to the BSS SoundWeb London. If you need more than 3 BSS SoundWeb London Node v5.4 modules in your program, it is recommended that you use multiple TCP/IP connections to the different BSS SoundWeb London nodes.
CRESTRON HARDWARE REQUIRED:	C2I-COM, C2-COM-*, C2I-*ENET-1/2
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 115200 Parity: None Data Bits: 8 Stop Bits: 1 TCP/IP Port: 1023
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	You must load a *.architect file into the BSS SoundWeb London. The node and object IDs in the *.architect file must match the node and object IDs entered in the modules in the Crestron program.
CABLE DIAGRAM:	RS232: CNSP-532 for 2-series processors.

Partner: BSS Audio
Model: SoundWeb London
Device Type: DSP

CRESTRON
CERTIFIED **INTEGRATED** PARTNER

CNSP-532

For 3-series processors:

BSS	Crestron
Pin 2 RX	TX
Pin 3 TX	RX
Pin 5 GND	GND
Pin 7 RTS	CTS
Pin 8 CTS	RTS
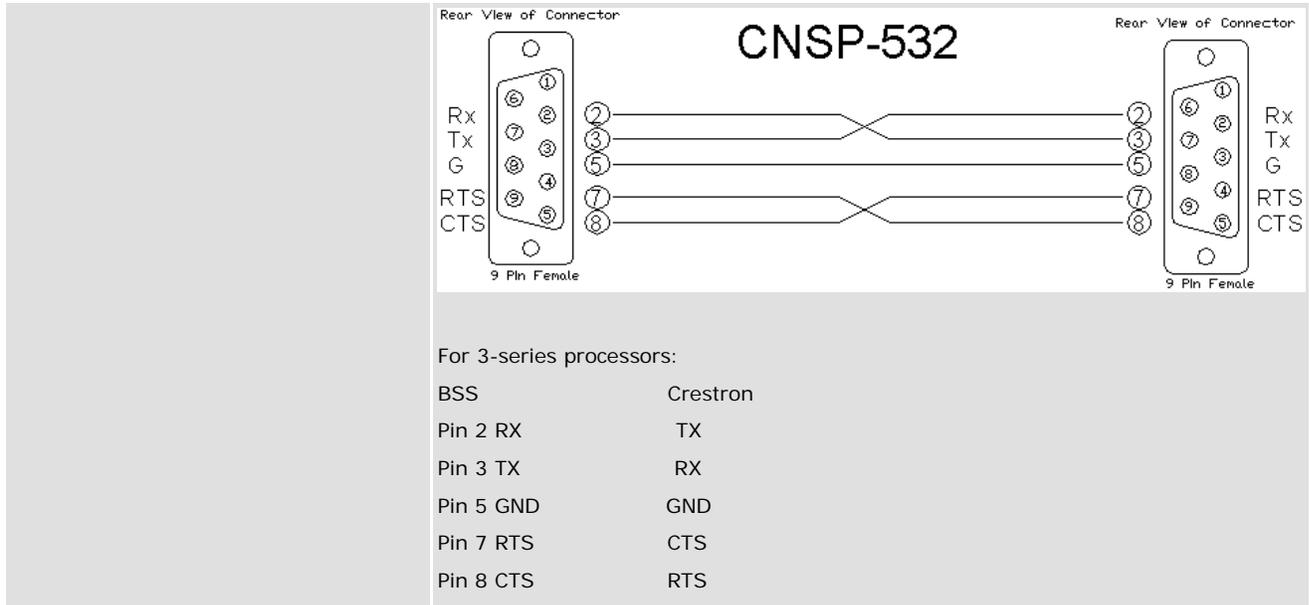
CONTROL:

Initialize	D	Pulse to initialize the BSS SoundWeb London suite of modules. This cannot be pulsed until the Allow_Initialize output goes high. The Allow_Initialize output will not go high until 30 seconds after the Crestron processor boots up.
From_Device	S	Serial signal to be routed from the RX$ on a 2-way serial com port or a TCP/IP Client symbol.
From_Modules	S	Serial signal to be routed from the tx$ outputs of all BSS SoundWeb London control modules that will be controlling objects on the Node this module is communicating with.

PARAMETERS:

Node	P	Enter the two byte value for the node that this module will communicate with. i.e. node 0424 would be entered as \x04\x24

FEEDBACK:

Initialize_Busy	D	High to indicate that the module is initializing communication with the control modules that are connected to this module. This is only required when the Crestron processor boots up. It is NOT required every time the TCP/IP client connects.
Allow_Initialize	D	High to indicate that Initialization is now allowed. This will go high 30 seconds after the Crestron processor boots up.
To_Device	S	Serial signal to be routed to the TX$ on a 2-way serial com port or on a TCP/IP Client symbol.
To_Module_<1…50>	S	Serial signal to be routed to the rx$ input on the control modules for the objects being controlled on the node this module is communicating with. It is acceptable to have more than one module with the same object ID connected to one To_Module_<1…50> output. For instance if you need to use more than one BSS SoundWeb London N-Gain 8-Channel Basic Driver v5.4 module to control all of the points on a signal N-Gain object in the BSS SoundWeb London those modules would all get connected to the same output from the is module.

TESTING:

OPS USED FOR TESTING:	CP3: 1.007.0019
SIMPL WINDOWS USED FOR TESTING:	4.03.20
DEVICE DB USED FOR TESTING:	72.00.001.00
CRES DB USED FOR TESTING:	54.05.005.00
SYMBOL LIBRARY USED FOR TESTING:	982
SAMPLE PROGRAM:	BSS SoundWeb London v5.4 Demo
REVISION HISTORY:	v1.0 – Initial Release v5.0 – Made significant changes to the modules to reduce the processing overhead. v5.4 - Incorporated 3-series best practices in all Simpl+ files.

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